Terms used: **stripe RAID decode intersect overlap** Found **32** of **207,474**

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Relevance scale

1 Implementing sorting in database systems

Goetz Graefe
September 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 3
Publisher: ACM Press
Full text available: pdf(518.63 KB) Additional Information: full citation, abstract, references, index terms

Most commercial database systems do (or should) exploit many sorting techniques that are publicly known, but not readily available in the research literature. These techniques improve both sort performance on modern computer systems and the ability to adapt gracefully to resource fluctuations in multiuser operations. This survey collects many of these techniques for easy reference by students, researchers, and product developers. It covers in-memory sorting, disk-based external sorting, and cons ...

Keywords: Key normalization, asynchronous read-ahead, compression, dynamic memory resource allocation, forecasting, graceful degradation, index operations, key conditioning, nested iteration

2 Compression techniques for fast external sorting

John Yiannis, Justin Zobel
April 2007 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 16 Issue 2
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(433.12 KB) Additional Information: full citation, abstract

External sorting of large files of records involves use of disk space to store temporary files, processing time for sorting, and transfer time between CPU, cache, memory, and disk. Compression can reduce disk and transfer costs, and, in the case of external sorts, cut merge costs by reducing the number of runs. It is therefore plausible that overall costs of external sorting could be reduced through use of compression.In this paper, we propose new compression techniques for data consisting of se ...

Keywords: External sorting, Query evaluation, Semi-static compression, Sorting

3 Parallel applications: Toward terabyte pattern mining: an architecture-conscious solution

Gregory Buehrer, Srinivasan Parthasarathy, Shirish Tatikonda, Tahsin Kurc, Joel Saltz

MR

Fri, 3 Aug 2007, 9:41:04 PM EST

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#4	(((stripe <paragraph> (store or load or write) <paragraph> (message or communication or acknowledgment) <paragraph> (quorum or group or failed or minimum)))<in>metadata)
#5	(((stripe <paragraph> (message or communication or acknowledgment) <paragraph> (quorum or group or failed or minimum) <paragraph> (decode or unscramble or decipher or decrypt)))<in>metadata)

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	Type	L #	Hits	Search Text	DBs
1	BRS	L1	20	("20050091450" "20050091451" "20050091556" "20060155946" "5794252" "6445717" "20040230624" "20060268718" "5369507" "20050144512").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
2	BRS	L2	2672	711/114.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
3	BRS	L3	308	714/3.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
4	BRS	L4	2279	714/6.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB

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	Type	L #	Hits	Search Text	DBs
5	BRS	L5	730	714/7.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
6	BRS	L6	493	714/8.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
7	BRS	L7	2	RAID and (strip$3 same (group or quorum or fail$3) same (intersect$3 or overlap$4) same decod$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
8	BRS	L9	32	(RAID same strip$3) and ((group or quorum or fail$3) same (intersect$3 or overlap$4)) and decod$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB

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	Type	L #	Hits	Search Text	DBs
9	BRS	L11	0	L3 and RAID and strip$3 and ((group or quorum or fail$3) same (intersect$3 or overlap$4)) and decod$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
10	BRS	L14	0	L6 and RAID and strip$3 and ((group or quorum or fail$3) same (intersect$3 or overlap$4)) and decod$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
11	BRS	L17	0	L3 and (strip$3 and ((group or quorum or fail$3) same (intersect$3 or overlap$4) same decod$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
12	BRS	L19	0	L5 and (strip$3 and ((group or quorum or fail$3) same (intersect$3 or overlap$4) same decod$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB

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	Type	L #	Hits	Search Text	DBs
13	BRS	L20	0	L6 and (strip$3 and ((group or quorum or fail$3) same (intersect$3 or overlap$4) same decod$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
14	BRS	L16	2	L2 and (strip$3 and ((group or quorum or fail$3) same (intersect$3 or overlap$4) same decod$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
15	BRS	L18	2	L4 and (strip$3 and ((group or quorum or fail$3) same (intersect$3 or overlap$4) same decod$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
16	BRS	L23	0	L3 and (strip$3 and ((minimum or minimal) same (intersect$3 or overlap$4) same decod$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB

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	Type	L #	Hits	Search Text	DBs
17	BRS	L25	0	L5 and (strip$3 and ((minimum or minimal) same (intersect$3 or overlap$4) same decod$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
18	BRS	L26	0	L6 and (strip$3 and ((minimum or minimal) same (intersect$3 or overlap$4) same decod$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
19	BRS	L27	3	(RAID and ((minimum or minimal) same (intersect$3 or overlap$4) same decod$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
20	BRS	L21	50	(strip$3 and ((minimum or minimal) same (intersect$3 or overlap$4) same decod$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB

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	Type	L #	Hits	Search Text	DBs
21	BRS	L8	92	RAID and strip$3 and ((group or quorum or fail$3) same (intersect$3 or overlap$4)) and decod$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
22	BRS	L24	2	L4 and (strip$3 and ((minimum or minimal) same (intersect$3 or overlap$4) same decod$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
23	BRS	L22	2	L2 and (strip$3 and ((minimum or minimal) same (intersect$3 or overlap$4) same decod$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
24	BRS	L15	170	(strip$3 and ((group or quorum or fail$3) same (intersect$3 or overlap$4) same decod$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB

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	Type	L #	Hits	Search Text	DBs
25	BRS	L13	1	L5 and RAID and strip$3 and ((group or quorum or fail$3) same (intersect$3 or overlap$4)) and decod$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
26	BRS	L12	6	L4 and RAID and strip$3 and ((group or quorum or fail$3) same (intersect$3 or overlap$4)) and decod$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
27	BRS	L10	4	L2 and RAID and strip$3 and ((group or quorum or fail$3) same (intersect$3 or overlap$4)) and decod$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
28	BRS	L28	2672	711/114.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB

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	Type	L #	Hits	Search Text	DBs
29	BRS	L29	72	strip$3 same (eras$3 near3 cod$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
30	BRS	L32	162	strip$3 same (parity near3 cod$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
31	BRS	L33	23	L28 and L32	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
32	BRS	L34	0	strip$3 same (parity near3 cod$3) same (writ$3 or stor$3) same query	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB

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	Type	L #	Hits	Search Text	DBs
33	BRS	L36	4	strip$3 same (parity near3 cod$3) same ((writ$3 or stor$3) near3 strip)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
34	BRS	L38	20	(parity near3 cod$3) same ((writ$3 or stor$3) near3 stripe)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
35	BRS	L30	2	L28 and L29	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
36	BRS	L31	72	strip$3 same (eras$3 near3 cod$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB

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	Type	L #	Hits	Search Text	DBs
37	BRS	L35	100	strip$3 same (parity near3 cod$3) same (writ$3 or stor$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
38	BRS	L37	20	strip$3 same (parity near3 cod$3) same ((writ$3 or stor$3) near3 stripe)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
39	BRS	L39	2	"5740465".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB

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1 FAB: building distributed enterprise disk arrays from commodity components

Yasushi Saito, Svend Frølund, Alistair Veitch, Arif Merchant, Susan Spence

October 2004 **ACM SIGARCH Computer Architecture News , ACM SIGOPS Operating Systems Review , ACM SIGPLAN Notices , Proceedings of the 11th international conference on Architectural support for programming languages and operating systems ASPLOS-XI**, Volume 32 , 38 , 39 Issue 5 , 5 , 11

Publisher: ACM Press

Full text available: pdf(671.67 KB) Additional Information: full citation, abstract, references, citings, index terms, review

This paper describes the design, implementation, and evaluation of a Federated Array of Bricks (FAB), a distributed disk array that provides the reliability of traditional enterprise arrays with lower cost and better scalability. FAB is built from a collection of *bricks*, small storage appliances containing commodity disks, CPU, NVRAM, and network interface cards. FAB deploys a new majority-voting-based algorithm to replicate or erasure-code logical blocks across bricks and a reconfigurati ...

Keywords: consensus, disk array, erasure coding, replication, storage, voting

2 Antiquity: exploiting a secure log for wide-area distributed storage

Hakim Weatherspoon, Patrick Eaton, Byung-Gon Chun, John Kubiatowicz

March 2007 **ACM SIGOPS Operating Systems Review , Proceedings of the 2007 conference on EuroSys EuroSys '07**, Volume 41 Issue 3

Publisher: ACM Press

Full text available: pdf(584.64 KB) Additional Information: full citation, abstract, references, index terms

Antiquity is a wide-area distributed storage system designed to provide a simple storage service for applications like file systems and back-up. The design assumes that all servers eventually fail and attempts to maintain data despite those failures. Antiquity uses a secure log to maintain data integrity, replicates each log on multiple servers for durability, and uses dynamic Byzantine fault-tolerant quorum protocols to ensure consistency among replicas. We present Antiquity's design and an ...

Keywords: archival storage systems, data durability, data integrity, distributed storage system, wide-area

3 Recovery in the Calypso file system

Murthy Devarakonda, Bill Kish, Ajay Mohindra
August 1996 **ACM Transactions on Computer Systems (TOCS)**, Volume 14 Issue 3
Publisher: ACM Press

Full text available: pdf(318.88 KB) Additional Information: full citation, abstract, references, citings, index terms, review

This article presents the deign and implementation of the recovery scheme in Calypso. Calypso is a cluster-optimized, distributed file system for UNIX clusters. As in Sprite and AFS, Calypso servers are stateful and scale well to a large number of clients. The recovery scheme in Calypso is nondisruptive, meaning that open files remain open, client modified data are saved, and in-flight operations are properly handled across server recover. The scheme uses distributed state amount the client ...

Keywords: Calypso, cluster systems, distributed state, state reconstruction

4 Feasibility of a serverless distributed file system deployed on an existing set of desktop PCs

William J. Bolosky, John R. Douceur, David Ely, Marvin Theimer
June 2000 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2000 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '00**, Volume 28 Issue 1
Publisher: ACM Press

Full text available: pdf(946.00 KB) Additional Information: full citation, abstract, references, citings, index terms

We consider an architecture for a serverless distributed file system that does not assume mutual trust among the client computers. The system provides security, availability, and reliability by distributing multiple encrypted replicas of each file among the client machines. To assess the feasibility of deploying this system on an existing desktop infrastructure, we measure and analyze a large set of client machines in a commercial environment. In particular, we measure and report results on ...

Keywords: analytical modeling, availability, feasibility analysis, personal computer usage data, reliability, security, serverless distributed file system architecture, trust, workload characterization

Results 1 - 4 of 4

Interference Search

	Type	L #	Hits	Search Text	DBs
1	BRS	L1	5605	711/114.ccls. or 714/3.ccls. or 714/6.ccls. or 714/7.ccls. or 714/8.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
2	BRS	L2	3	(strip$3 same (stor$3 or load$3 or writ$3) same (messag$3 or communicat$3 or acknowledg$5) same (quorum or group or fail$3 or minimum) same (intersect$3 or overlap$4 or cross$3) same (decod$3 or unscrambl$3 or decipher$3 or decrypt$3)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
3	BRS	L3	5	(strip$3 same (stor$3 or load$3 or writ$3) same (messag$3 or communicat$3 or acknowledg$5) same (quorum or group or fail$3 or minimum) same (decod$3 or unscrambl$3 or decipher$3 or decrypt$3)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
4	BRS	L4	2	L1 and (strip$3 same (stor$3 or load$3 or writ$3) same (messag$3 or communicat$3 or acknowledg$5) same (quorum or group or fail$3 or minimum) same (intersect$3 or overlap$4 or cross$3) same (decod$3 or unscrambl$3 or decipher$3 or decrypt$3)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB

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Interference Search

	Type	L #	Hits	Search Text	DBs
5	BRS	L5	2	L1 and (strip$3 same (stor$3 or load$3 or writ$3) same (messag$3 or communicat$3 or acknowledg$5) same (quorum or group or fail$3 or minimum) same (decod$3 or unscrambl$3 or decipher$3 or decrypt$3)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB

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